XDA45

KING OF MINE OFF-ROAD-ARTICULATED DUMP TRUCK

矿山越野王 铰接式自卸车



发动机额定功率(kW/rpm):350/1800
Rated power of the engine (kW/rpm): 350/1800
额定载重(kg):41000
Rated Load Capacity (kg): 41,000
货厢容积2:1堆装(m^3):25
Volume of the cargo compartment, 2:1 heaped (m^3): 25

徐州徐工矿业机械有限公司
XUZHOU XCMG MINING MACHINERY CO., LTD

地址:江苏徐州市贾汪区和平大道169号
Address: No. 169, Heping Avenue, Jiawang District, Xuzhou City, Jiangsu Province
网站:www.xcmg.com
Website: www.xcmg.com
邮编:221000 电话:400-110-9999/0516-83113333
Postal code: 221000 Tel.: 400-110-9999/0516-83113333

抖音号 Tik Tok account

视频号 WeChat video account

公众号 WeChat official account



XDA45铰接式自卸车，采用徐工专有实时六轮驱动技术、全地形行车自适应技术、整机安全驾乘综合控制技术、热能控制及管理技术、大流量液压倾卸系统稳定控制技术、智能化人机交互及诊断技术，整机具有高安全性、高可靠性、高智能化。动力强劲，节能降耗。维护保养方便，驾驶舒适性高。

The Articulated Dump Truck XDA45 utilizes XCMG's exclusive real-time six-wheel drive technology, adaptive technology for all-terrain driving, comprehensive control technology for the Truck's safety and driving comfort, thermal energy control and management technology, stable control technology for high-flow hydraulic dumping system, and intelligent human-machine interaction and diagnostic technology. The Truck boasts exceptional levels of safety, reliability, and intelligence. The Truck showcases impressive performance and energy-saving efficiency. Maintenance and servicing are conveniently provided, thus ensuring optimal driving comfort.

高效运行　Efficient

使用这台动力强劲、节能高效、操作舒适的矿山越野王，可实时满足全工况高效率作业需求。得益于机器的高可靠性设计，便捷的售后服务和出色的徐工全球营销网络，车辆的高可靠性，保证高效的出勤率。

By using this powerful, energy-efficient, and comfortable King of Mine Off-Road Truck in mining operations, it can meet the demands of high-efficiency work in all conditions in real time. With the high-reliability design of the machine, convenient after-sales service, XCMG's excellent global marketing network, and high reliability of the vehicle, the vehicle has a remarkable attendance rate.

可靠耐用　Dependable and durable

应用了关键结构件焊接应力与变形仿真技术，准确预测在复杂结构件焊接过程中引起的变形和残余应力，优化焊接工艺。进行疲劳寿命分析预测技术研究，建立徐工专有的结构件焊接疲劳寿命分析方法，提升关键结构件生命周期。研究结构件应力消除技术，综合应用振动时效去应力，降低残余应力，大幅提升产品使用寿命。

By employing advanced welding stress and deformation simulation technology on key structural components, we accurately anticipate the deformation and residual stress resulting from complex welding processes, thus optimizing the welding process. Conducting research on fatigue life analysis and prediction technology, we have developed XCMG's proprietary fatigue life analysis method for structural component welding, enhancing the lifecycle of key structural components. Exploring stress relief techniques for structural components, we comprehensively apply vibration aging to eliminate stress and reduce residual stress, significantly improving the product's service life.





服务访问 Service accessibility

我们始终秉承“全心全域全服务”的超值服务理念，凭借GPS物联网数字化平台，快速访问机器运行状态，维护您的机器是快速和轻松。按下机罩举升开关，机罩迅速打开，通过走台上的通道，允许充分和安全地进入发动机舱。

We consistently uphold the value-added service principle of “dedicated, comprehensive, and all-inclusive”. Through the employment of the GPS Internet of Things digital platform, you can swiftly obtain real-time information about the machine's operational status, facilitating convenient and efficient maintenance. Simply activate the hood lifting switch, and the hood will promptly open, providing unimpeded and secure entry to the engine compartment via the designated walkway.

徐工集团经销商网络　Dealer network of XCMG

徐工集团全球庞大的经销网络时刻为您提供支持，可以一站式为全球用户，提供涵盖销售、售后、融资的一体化高效便捷服务。我们建立了多样化的电商平台，致力于为客户提供方便快捷的产品选购与交流渠道。

The extensive global dealer network of XCMG is always there to support you, providing integrated and efficient services covering sales, after-sales, and financing for customers worldwide. We have established a range of e-commerce platforms exclusively designed to provide customers with convenient and efficient channels for product selection and communication.

逢山开路
Creating access routes in rugged mountainous regions

这台“矿山越野王”具有出色的越野性能，其卓越的机动性、良好的通过性和极佳的环境适应性，为设备持续运行提供保障。

This exceptional “King of Off-Road Mining Trucks” showcases remarkable off-road capabilities, guaranteeing uninterrupted equipment operation through its outstanding maneuverability, impressive traversal capabilities, and remarkable adaptability to various environmental conditions.

全地形作业　All-terrain operation

前后车架为铰接结构，转弯半径小，全时6×6驱动，驱动能力强，全地形悬架及自适应控制技术，可以让您放心进入泥泞湿滑及空间限制的工作环境，并爬上更陡的坡。

Featuring articulated front and rear frames with a small turning radius, full-time 6*6 drive capability, and all-terrain suspension with adaptive control technology, it allows you to confidently enter muddy, slippery, and space-restricted work environments and climb steeper slopes.



出色的制动性能　Impressive braking performance

湿盘制动器，安全可靠，同时配置发动机制缸内制动及变速箱液力缓行，保证了车辆长下坡路况的安全性。

Equipped with wet disc brakes for safety and reliability, along with engine braking and transmission hydraulic retarder, it ensures the vehicle’s safety during long downhill conditions.



高效回报　Efficient returns

原装国际知名品牌液压系统，配合高品质液压元件，采用泵控液压系统和负载敏感转向系统，各系统间独立运行，提升了系统的稳定性和故障排查的便捷性，保证高效率作业。

Equipped with internationally renowned original hydraulic systems, high-quality hydraulic components, and a pump-controlled hydraulic system with a load-sensitive steering system, each system operates independently, enhancing system stability and facilitating troubleshooting, guaranteeing efficient operations.





矿山越野王　King of Mine Off-Road Truck

突破多项核心技术，主要有:
Breakthroughs in multiple core technologies mainly include:

1、整车全地形悬架及自适应控制技术;
2、智能分级制动控制与两级转向技术;
3、大负荷减振缓冲控制技术;
4、智能化人机交互及诊断技术:
5、关键结构件疲劳寿命提升技术。

1. All-terrain suspension and adaptive control technology for the Truck;
2. Intelligent grade braking control and two-stage steering technology;
3. Heavy-load vibration damping and buffering control technology;
4. Intelligent human-machine interaction and diagnostic technology; and
5. Technology for improving the fatigue life of key structural components.

舒适驾乘　Enhanced driving comfort

符合ISO防落物标准的FOPS驾驶室，空间宽敞，视野开阔。各种显示仪表、报警器、照明、控制开关、收音机等配备齐全。司机座椅为可调气悬浮式减振高靠背座椅，配备副驾驶座椅。配备组合式仪表、可倾斜伸缩式方向盘、电动风档雨刷及清洗器、着色玻璃、冷暖空调。车辆运行数据及故障报警项目采用可控组合式仪表的显示方式。

The FOPS cab complies with ISO standards for safeguarding against falling objects, offering ample space and expansive visibility. Configurations, like different instruments, alarms, lighting switches and control switches are complete. The driver's seat is a fully adjustable air-suspended seat with a tall backrest, complemented by a front passenger seat. The Truck is furnished with a comprehensive instrument panel that includes a combination of instruments, a tiltable telescopic steering wheel, electric wipers and washers, tinted glass, as well as heating and cooling air conditioning (A/C) system. The operational data of the Truck and alarm notifications for faults are displayed on a controllable combination instrument panel.

高稳定性　High stability

油气悬挂与A型架结合，保证车辆具有良好的车辆稳定性与越野性能；悬架结构能够改善恶劣路面对整车的冲击，提高整车的平顺性及操纵稳定性。

The combination of oil and gas suspension with an A-frame ensures good vehicle stability and off-road performance of the Truck. The suspension structure can improve the impact of harsh road conditions on the Truck, enhancing ride comfort and maneuvering stability.

承载强劲　Strong load-bearing capacity

货厢采用全焊接结构，由高强度HB400耐磨钢板制造，坚固耐用;倾卸角度大，倾卸离地间隙大，装载高度低，极利于物料的快速装卸。平底尾翘式，岩石型，安装橡胶减震块。

The cargo compartment adopts a fully welded structure made of high-strength HB400 wear-resistant steel plates, providing robustness and durability. It has a large dumping angle, a high ground clearance during dumping, a low loading height, greatly facilitating the quick loading and unloading of materials. It features a flat-bottomed and tail-lift design, suitable for rocky terrain, and is equipped with rubber shock-absorbing blocks.



举升控制　Lifting control

货厢举升动作通过一个举升阀组，操纵两个单级双作用、伸缩式油缸完成。

The lifting action of the cargo compartment is completed through a lift valve assembly, operating two single-stage, double-acting, telescopic cylinders.

精准转向　Precise steering

进口变量柱塞泵提供转向油源，流量放大式液压转向，方向盘路感较好、转向响应精度高、转向平稳。

An imported variable plunger pump provides power steering fluid, ensuring a flow-amplified hydraulic steering system that delivers a good steering feel, high steering response accuracy, and smooth steering.

液压系统　Hydraulic system

原装国际知名品牌液压系统，配合高品质液压元件，采用泵控液压系统和负载敏感转向系统，各系统间独立运行，提升了系统的稳定性和故障排查的便捷性，保证高效率作业。

Equipped with internationally renowned original hydraulic systems, high-quality hydraulic components, and a pump-controlled hydraulic system with a load-sensitive steering system, each system operates independently, enhancing system stability and facilitating troubleshooting, guaranteeing efficient operations.

节能环保
Energy-saving and environmentally friendly

原装进口奔驰发动机，动力强劲，低排放，低噪音，大大减少对环境的危害。与同级别产品对比拥有强大的牵引力、保证设备快速高效工作，提升设备通过性。坚固耐用、油耗低，可满足多种工况需求。久经考验、坚固耐用的部件和精密的制造工艺，使得该系列产品拥有更高的可靠性和高效性。

An original imported Mercedes-Benz engine offers powerful performance, low emissions, low noise, greatly reducing environmental impact. Compared to products of the same level, it provides strong traction, ensuring fast and efficient equipment operation and improving equipment maneuverability. Durable and fuel-efficient, it can meet various working conditions. Strong, durable and well-tested components and precise manufacturing process make the product series more reliable and more efficient.

制动系统 Brake system

采用全液压湿盘式制动系统，该系统确保了车辆的高制动性能和长使用寿命，即使在泥泞的路面，仍保证车辆具有良好的制动性。通过利用强劲的发动机和变速箱缓行在下坡时控制稳定的车速，在弯道或十字路口前降速，降低了行车制动器的使用，确保了低运营成本和安全运输。
驻车制动:弹簧加载，气压释放。

The Truck is equipped with a fully hydraulic wet disc brake system, which guarantees exceptional braking performance and extended durability. This system remains highly effective even when traversing muddy terrain, ensuring consistent and reliable braking capabilities. By utilizing a powerful engine and controlling a stable speed during downhill travel using the transmission, it reduces speed before corners or intersections, minimizing the use of the braking system and ensuring low operating costs and safe transportation.
Parking brake: Spring-loaded and air pressure release.

舒适控制 Comfortable control

采用宽敞的驾驶室和舒适的工作环境使XDA45成为客户的首选。它卓越的舒适性、控制性、易操作性和安全性吸引着操作员，有助于保持高效的出勤率。

The XDA45 stands out as the favored option among customers, thanks to its capacious cabin and pleasant working environment. The exceptional comfort, excellent controllability, effortless operation, and top-notch safety features of the XDA45 captivate operators, resulting in consistently high efficiency.

智能管控 Intelligent management

基于智能化及信息化技术，开发专用的整机智能监控系统，随时对车辆运行状况和相关数据进行记录，针对影响行车安全的非规范操作或故障，实现智能限挡限速；通过GPS数据传输和定位技术，实现远程数据监控；全面收集车辆运行数据，并进行详细的数据处理、分析和存储，用于指导智能化程序的开发。根据铰接式自卸车的结构特点，制定独特的控制逻辑，自主编程，并于发动机及变速箱的主程序进行对接，实现整机特殊工况下的智能减速或停机。

Based on intelligent and information technology, a dedicated intelligent monitoring system for the Truck is developed to record the vehicle's operating conditions and relevant data at any time. It achieves intelligent gear and speed limitations for non-standard operations or malfunctions that affect driving safety. Through GPS data transmission and positioning technology, remote data monitoring is realized. Comprehensive collection of vehicle operation data is conducted, followed by detailed data processing, analysis, and storage, which are used to guide the development of intelligent programs. Based on the structural characteristics of the Articulated Dump Truck, unique control logic is formulated, autonomously programmed, and integrated with the main programs of the engine and transmission to achieve intelligent deceleration or shutdown under special operating conditions of the Truck.

易于操作 Easy operation

人机交互技术，操纵元件布置设计科学、合理，灵活的转向、舒适的控制，保证驾驶员操作使用的便捷性与舒适性。

The utilization of human-machine interaction technology, the meticulous arrangement of operating components based on scientific principles, the responsive steering system, and the driver's exceptional control capability collectively contribute to a convenient and comfortable operating experience.



安全舒适 Safety and comfort

人体工程学设计驾驶室，符合ISO防倾翻/防落物标准的ROPS&FOPS驾驶室，空间宽敞，视野开阔，配置了舒适安全的可调气悬浮式座椅。驾驶室和机罩均为可翻转设计，并配备安全支撑装置，维修方便，安全高效。

The cabin has been meticulously designed with ergonomic principles in mind, featuring a ROPS & FOPS cab that conforms to the ISO standards for rollover and falling object protection. It provides a spacious and well-illuminated environment, while being equipped with a comfortable and secure adjustable air-suspension seat. Both the cab and the hood are designed to be flip-over, equipped with safety support devices, facilitating convenient and safe maintenance.



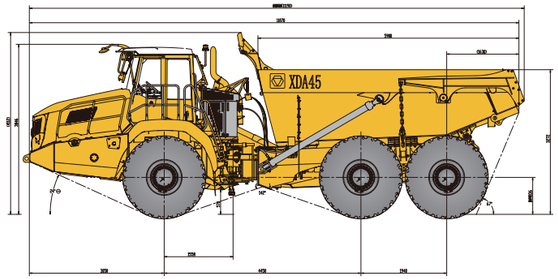
详细介绍 Detailed introduction

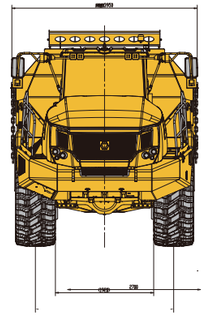
项目 Item	单位 Unit	参数 Parameter
发动机 Engine		
发动机型号 Engine model	MTU	Benz OM502
发动机额定功率 Rated power of the engine	kW	350
发动机马力 Engine HP	hp	476
发动机额定转速 Rated speed of the engine	r/min	1800
最大扭矩 Full torque	Nm	2300
电气系统 Electrical system		
电压 Voltage	V	24
电池 Battery	V	2×12
电池容量 Battery Capacity	Ah	2×75
交流发电机 Alternator	KW/A	2.24/80
启动电机 Starting motor	Kw	6.7
传动系统 Transmission system		
扭矩变换器 Torque converter	艾力逊 Allison	TC541(1.9)
变速箱 Transmission	艾力逊 Allison	4800ORS
分动箱 Transfer case	凯斯勒 Kessler	W4640
车桥 Axles	凯斯勒 Kessler	XCM08
驾驶室 Cab		
驾驶室内部噪声 Interior noise level	dB	74
外部噪声 Exterior noise level	dB	115
液压系统最大工作压力 Maximum working pressure of the hydraulic system	Mpa	27.5
举升角度 Lifting angle	°	70
举升时间 Lifting time	s	12
降落时间 Lowering time	s	13
货厢 Cargo compartment		
板厚 Plate thickness	/	/
前板 Front plate	mm	8
侧板 Side plate	mm	12
底板 Bottom plate	mm	16
材料 Material	/	NM400
货厢容积 Volume of the cargo compartment		
标准货厢 Standard cargo compartment	/	/
额定载重 Rated load	kg	41000
平装 Struck	m^3	19.5
2:1堆装 2:1 heaped	m^3	25
带后挡板 With tailgate	/	/
平装 Struck	m^3	20
2:1堆装 2:1 heaped	m^3	26

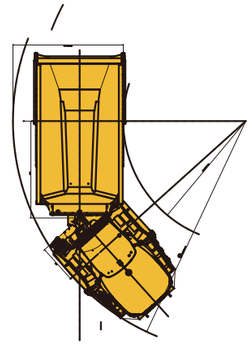
技术规格 Specifications

项目 Item	单位 Unit	参数 Parameter
填充容量 Filling capacity		
曲轴箱 Crankcase	L	40
燃油箱 Fuel tank	L	500
冷却系统 Cooling system	L	100
变速箱 Transmission	L	48
分动箱 Transfer case	L	11
车桥 Axles	L	179
液压油箱 Hydraulic oil tank	L	300
空载工作重量 Operating weight (no-load)		
轮胎 Tire	——	29.5R25
前面 Forward	kg	17000
后面 Rear	kg	17000
总部 Headquarters	kg	34000
有效载荷 Payload	kg	41000

项目 Item	单位 Unit	参数 Parameter
速度 Speed		
前进 Forward	——	——
1	km/h	4.6
2	km/h	6.7
3	km/h	15.9
4	km/h	21.2
5	km/h	30.4
6	km/h	41.2
7	km/h	51
后退 Backward	——	——
1	km/h	5.6
总重量 Total weight		
轮胎 Tire	——	29.5R25
前面 Forward	kg	22500
后面 Rear	kg	52500
总部 Headquarters	kg	75000







类别 Category	项目 Item		单位 Unit	参数 Parameter
尺寸参数 Dimension parameter	整机全长 Overall length of the Truck		mm	11070
	整机全宽 Overall width of the Truck		mm	3950
	整机全高 Overall height of the Truck		mm	3846
	前中轴距 Front-mid axle distance		mm	4450
	中后轴距 Mid-rear axle distance		mm	1940
	轮中心距 Wheel center distance	前轮 Front wheel	mm	2700
		后轮 Rear wheel	mm	2700
重量参数 Weight parameters	整车总质量 Gross weight of the Truck		kg	75000
	额定载重 Rated load		kg	41000
	空载车重 No-load weight of the Truck		kg	34000

标配 ● 选配 ○
Standard ● Optiona ○

主配置及参数 Main configurations and parameters

发动机 Engine	奔驰OM502 Mercedes-Benz OM502
变速箱 Transmission	艾利逊4800 ORS-PR Allison 4800 ORS-PR
分动箱 Transfer case	凯斯勒 Kessler
车桥 Axles	NAF湿盘 NAF wet disc
额定功率/kW Rated power (kW)	350
2:1堆装容积/m³ 2:1 heaped volume/m³	25

安全 Safety

防滑台阶和平台 Anti-skid steps and platform	●
转向限位锁 Steering limit lock	●
货厢安全限位锁 Safety limit lock for the cargo compartment	●
扶手 Handrail	●
驾驶室后窗防护网 Rear window protecting net for the cab	●
后视镜 Rear-view mirror	●
电动加热后视镜 Electric heated mirrors	○
FOPS&ROPS驾驶室 FOPS&ROPS cab	●
雨刮器 Wiper	●
应急转向 Emergency steering	
手持式灭火器 Hand-held fire extinguisher	●
自动灭火系统 Automatic fire extinguishing system	○

动力传动系统 Power transmission system

非道路欧三/国三排放 Non-road Euro III/N III emission	●
非道路国四排放 Off-road National IV emission	
非道路欧五/美国T4f排放 Off-road Euro V/American T4f emission standard	
冷启动系统 Cold start system	○
发动机延时熄火 Delayed engine shutdown	●
便于操作的机油放油阀 User-friendly engine oil drain valve	●
解压缩制动 Decompression brake	●
车桥差速锁 Inter-axle differential lock	●
全自动变速箱 Full-automatic transmission	●
变速箱液力缓速器 Transmission hydraulic retarder	●
带自锁的液力变矩器 Liquid-filled torque converter with lock-up	●
带纵向差速锁的分动箱 Transfer case with longitudinal differential lock	●

货厢 Cargo compartment

高强度耐磨货厢 High-strength wear-resistant cargo compartment	●
货厢加热套件 Heating kit for the cargo compartment	●
前部防落物护板 Front anti-falling protective plate	○
货厢后挡板组件 Rear baffle assembly for the cargo compartment	○

轮胎 Tire

29.5R25 三星 29.5R25 Sanxing	●

电气系统 Electrical system

蓄电池隔离开关 Battery isolation switch	●
双级隔离开关 Dual-stage isolation switch	○
启动跳接器 Jump starter	●
24V电源插口 24V power socket	●
12V电源插口 12V power socket	○
卤素前大灯 Halogen front lights	●
LED前大灯 LED front lights	○
LED倒车灯 LED reverse lights	●
LED工作灯 LED work lights	●
LED信号灯 LED signal lights	●
报警灯 Alarm lights	●
按键背光灯 Button backlight	●
驾驶室照明灯 Cab lighting	●
电动超高音喇叭 Electric high-tone horn	●
倒车报警器 Reverse alarm	●

制动系统 Brake system

装载和倾卸制动 Load and dump brakes	●
气控驻车制动 Air-controlled parking brake	●
全桥湿式制动 Full-axle wet brakes	●

舒适性 Comfort

气悬浮两点式安全带座椅 A seat with a two-point seat belt and air suspension	●
气悬浮三点式安全带座椅 A seat with a three-point seat belt and air suspension	○
带安全带的教练座椅 The instructor's seat, complete with a seat belt	●
点烟器 Cigarette lighter	●
烟灰缸 Ashtray	●
推拉窗 Sliding windows	●
带USB接口的收音机及音响系统 Radio and sound system with USB interface	●
遮阳板 Sunvisor	●
可伸缩和倾斜的方向盘 Telescopic and tiltable steering wheel	●
提供新鲜空气的空调系统 A/C system with fresh air supply	●
驾驶室增压系统 Cab pressurization system	○
机罩电动开启 Electric hood opening	●

维护和保养 Maintenance and service

手动集中润滑系统 Manual centralized lubrication system	●
自动集中润滑系统 Automatic centralized lubrication system	○
燃油快速加注系统 Fuel rapid refueling system	○
油液集中加注及采样系统 Central fluid refilling and sampling system	○
超低温套件 Ultra-low temperature kit	○
轮胎充气工具 Tire inflation tool	○
悬挂缸充氮工具 Nitrogen filling tool for the suspension cylinder	○
随机工具箱 Accompanying tool kit	●







